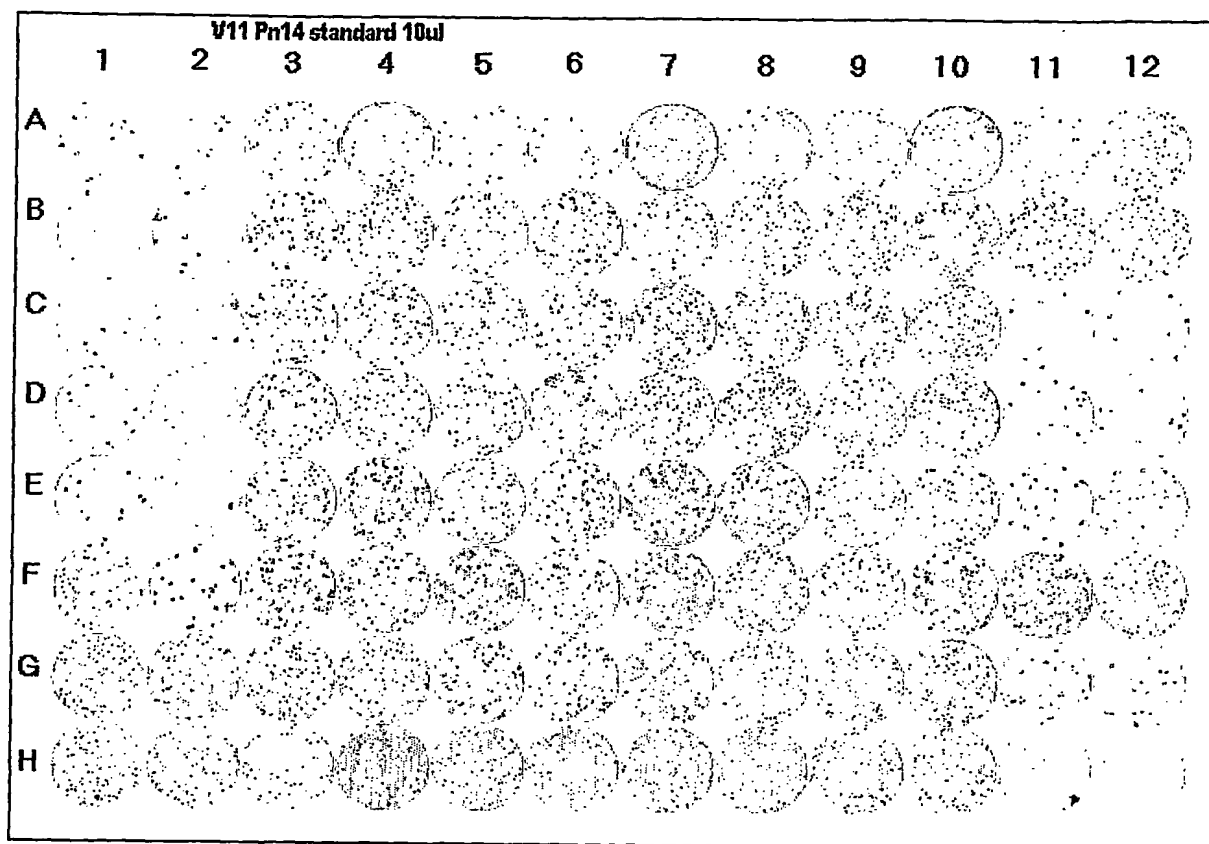


OPK V11-14 Template Setup											

FIG. 1

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FIG. 2

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OPK V11-14 Colony Read Out by Immunospot Counter									
(019 pool)	(014 pool)	(013 pool)	Neg. Sera & Dilution		Neg. Sera & Dilution		Controls		
21	16	51	33	185	165	183	203	133	128
8	15	118	107	145	194	178	168	137	160
15	9	93	86	174	197	170	199	8	14
19	9	107	96	165	166	153	200	17	14
19	7	109	120	166	177	94	101	25	42
68	42	104	105	165	179	123	98	161	167
136	145	125	92	183	198	163	158	43	21
147	133	127	114	178	168	182	190	9	5

FIG. 3

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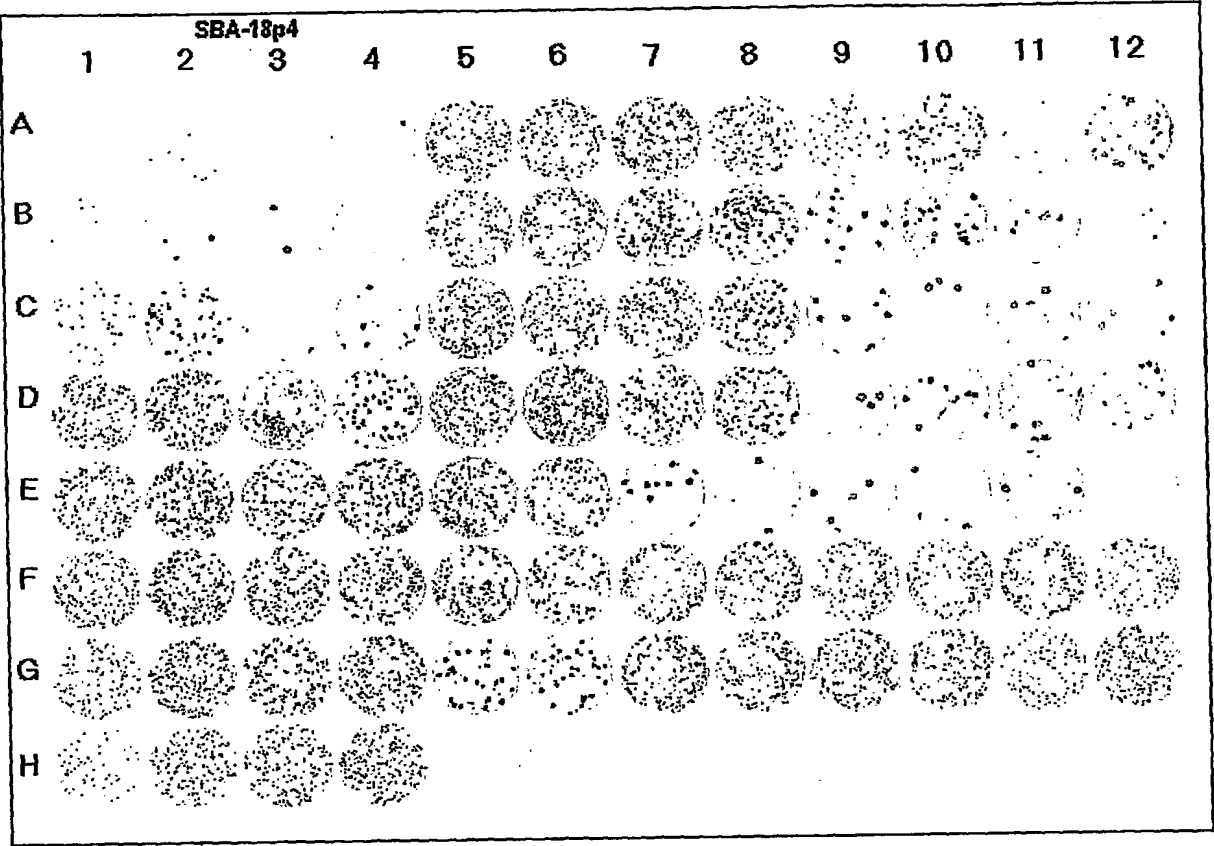
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Serotype C					Serotype C bacteria, MJC post serum 1:16						
Pre		Post		Controls		Post		Post		Post	
1	2	3	4	5	6	7	8	9	10	11	12
A	1:4	1:4		Cells only (2) pre 1:16		Mn C-Ps 10000 ng/ml	W135-Ps 10000 ng/ml	Y-Ps 10000 ng/ml			
B	1:8	1:8		Cells only (2) post 1:16		Mn C-Ps 1000 ng/ml	W135-Ps 1000 ng/ml	Y-Ps 1000 ng/ml			
C	1:16	1:16		Cells + C'		Mn C-Ps 100 ng/ml	W135-Ps 100 ng/ml	Y-Ps 100 ng/ml			
D	1:32	1:32				Mn C-Ps 10 ng/ml	W135-Ps 10 ng/ml	Y-Ps 10 ng/ml			
E	1:64	1:64		post 1:16 + Mn C-PS 10 ug/ml (2)		post 1:16 no Ps	post 1:16 no Ps	post 1:16 no Ps	post 1:16 no Ps	post 1:16 no Ps	post 1:16 no Ps
F	1:128	1:128		post 1:16 + Mn W135-PS 10 ug/ml		Cells only post 1:16	Cells only post 1:16	Cells only post 1:16	Cells only post 1:16	Cells only post 1:16	Cells only post 1:16
G	1:256	1:256		post 1:16 + Mn Y-PS 10 ug/ml (2)		Cells+C'	Cells+C'	Cells+C'	Cells+C'	Cells+C'	Cells+C'
H	1:512	1:512		medium control		medium control	medium control	medium control	medium control	medium control	medium control

FIG. 4

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FIG. 5

Serotype C										Serotype C bacteria, MJC post serum 1:16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
pre					post					controls					Mn C-ps					Mn W135-ps					Mn Y-ps																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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FIG. 6

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**Attachment I**  
**Plate Layout for Each Validation Run**  
**Each Run was Performed Using the Agar and HV Plate Methods**

Serotype 23F

Plate    Operator    HL-60  
                          Batch

1            1            1

(019 pool)		(014 pool)		(013 pool)		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		1	1:8	5	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		2	1:8	6	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		3	1:8	7	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		4	1:8	8	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Note: "2X titer" = 50% endpoint titer of positive control serum times 2.

\*Use polysaccharides (PS) at 1 mcg/ mL

Plate    Operator    HL-60  
                          Batch

2            2            1

(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		9	1:8	13	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		10	1:8	14	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		11	1:8	15	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		12	1:8	16	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate    Operator    HL-60  
                          Batch

3            1            2

(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
1:32		1:8		1:8		17	1:8	21	1:8	Cells + C'	
1:64		1:16		1:16			1:16		1:16	(no serum)	
1:128		1:32		1:32		18	1:8	22	1:8	QC-1 (2X titer)	
1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
1:512		1:128		1:128		19	1:8	23	1:8	QC-1 (0.5X titer)	
1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
1:2048		1:512		1:512		20	1:8	24	1:8	QC-1 (1:64) + C-Ps*	
1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

FIG. 7A

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**Attachment I (continued)**  
**Plate Layout for Each Validation Run**  
**Each Run was Performed Using the Agar and HV Plate Methods**

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
4	2	2	1:32		1:8		1:8		25	1:8	29	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		26	1:8	30	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		27	1:8	31	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		28	1:8	32	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
5	1	3	1:32		1:8		1:8		33	1:8	37	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		34	1:8	38	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		35	1:8	39	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		36	1:8	40	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

Plate	Operator	HL-60 Batch	(019 pool)		(014 pool)		013 pool		neg. sera		neg. sera		Controls	
			1	2	1	2	1	2	#	Dilution	#	Dilution	1	2
6	2	3	1:32		1:8		1:8		41	1:8	45	1:8	Cells + C'	
			1:64		1:16		1:16			1:16		1:16	(no serum)	
			1:128		1:32		1:32		42	1:8	46	1:8	QC-1 (2X titer)	
			1:256		1:64		1:64			1:16		1:16	QC-1 (1X titer)	
			1:512		1:128		1:128		43	1:8	47	1:8	QC-1 (0.5X titer)	
			1:1024		1:256		1:256			1:16		1:16	QC-1 (1:64) + 23F PS	
			1:2048		1:512		1:512		44	1:8	48	1:8	QC-1 (1:64) + C-Ps*	
			1:4096		1:1024		1:1024			1:16		1:16	Medium alone	

FIG. 7B

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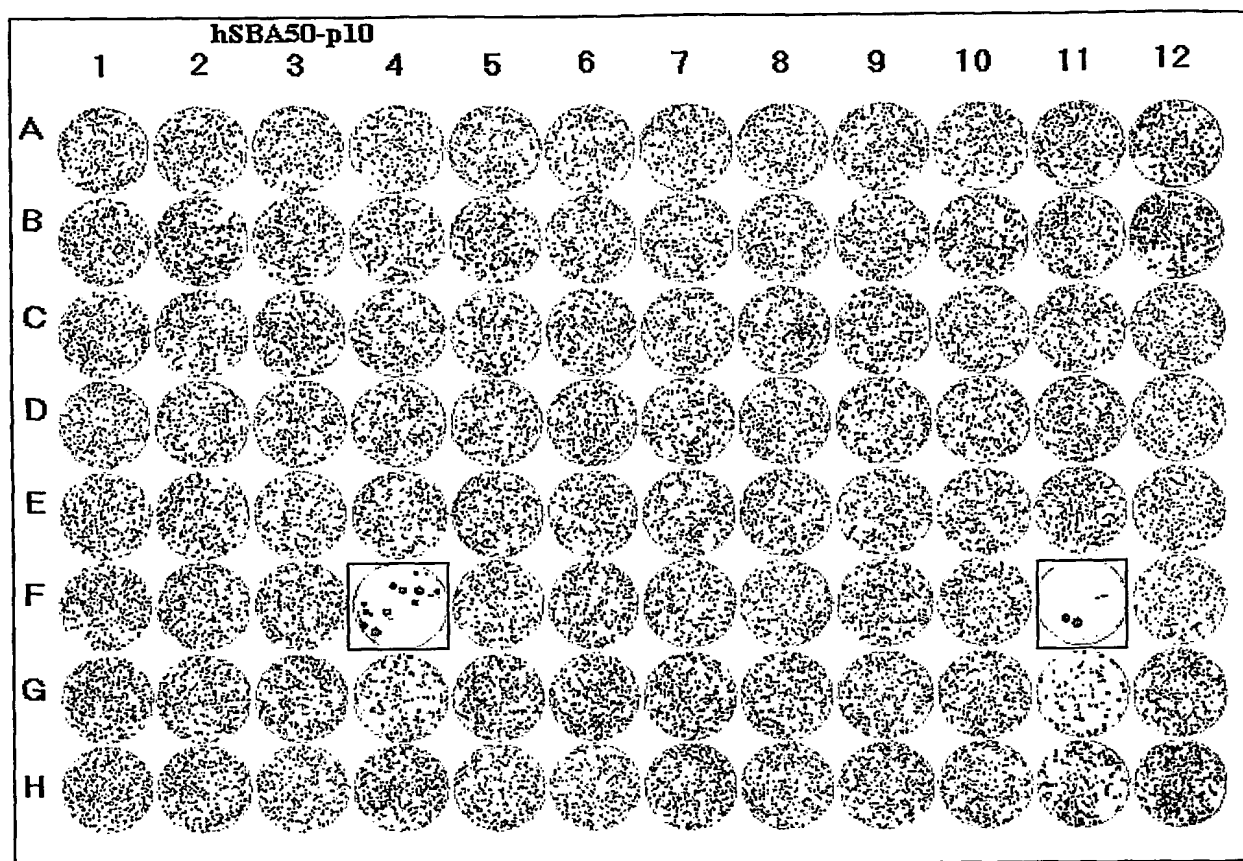
**Attachment II**  
**Plate Layout for Specificity Experiment**  
**One Agar Plate and One HV Plate was Prepared by Operator SW**

Column:	1	2	3	4	5	6	7	8	9	10	11	12
Serum:	Pool 019		QC-1		Pool 019 minus C'		QC-1 minus C'		Pool 019 Specificity		QC-1 Specificity	
Row	1	2	1	2	1	2	1	2	1	2	1	2
A	1:32		1:32		1:32		1:32		1:64		1:64	
B	1:64		1:64		1:64		1:64		1:64 + Ps 6B		1:64 + Ps 6B	
C	1:128		1:128		1:128		1:128		1:64 + Ps 9V		1:64 + Ps 9V	
D	1:256		1:256		1:256		1:256		1:64 + Ps 14		1:64 + Ps 14	
E	1:512		1:512		1:512		1:512		1:64 + Ps 18C		1:64 + Ps 18C	
F	1:1024		1:1024		1:1024		1:1024		1:64 + Ps 19F		1:64 + Ps 19F	
G	1:2048		1:2048		1:2048		1:2048		1:64 + Ps 23F		1:64 + Ps 23F	
H	No Serum		No Serum		No Serum		No Serum		1:64 + C-Ps		1:64 + C-Ps	

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FIG. 8

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FIG. 9